

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 2001-200028
(43)Date of publication of application : 24.07.2001
(51)Int.Cl. C08G 18/00
C08G 18/16
C08K 5/49
C08L 61/28
C08L 75/04
// (C08G 18/00
C08G101:00)
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(30)Priority
Priority number : 11318145 Priority 09.11.1999 Priority JP
date:

(54) LOW COMBUSTIBLE POLYURETHANE FOAM

(57)Abstract: PROBLEM TO BE SOLVED: To obtain a flexible polyurethane foam exhibiting lower combustibility and giving less molten drops when burned than conventional ones.
SOLUTION: This low combustible, flexible polyurethane foam comprises a flexible polyurethane foam obtained by reacting a polyol component with a polyisocyanate component in the presence of additives comprising a blowing agent, a foam stabilizer, a catalyst and a flame-retardant, where the polyisocyanate is MDI in the amount such that the NCO index is 1.8-3.0, the flame retardant comprises at least 70 pts.wt. of a melamine resin and 30-70 pts.wt. of an organic phosphorus-containing flame-retardant, each based on 100 pts.wt. of the polyol component, and the foam stabilizer comprises 0.1-2.5 pts.wt. of a dimethylpolysiloxane-polyalkylene copolymer having an OH at the end of its polyether. There is also provided a low combustible, flexible polyurethane foam where the catalyst is 0.1-2.0 pts.wt. of potassium octate or a combination of 0.1-1.5 pts.wt. of potassium octate and 0.1-3.0 pts.wt. of an amine-based catalyst.

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[Date of request for examination]
[Date of sending the examiner's decision of rejection]
[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]
[Date of final disposal for application]
[Patent number]
[Date of registration]
[Number of appeal against examiner's decision of rejection]
[Date of requesting appeal against examiner's decision of rejection]
[Date of extinction of right]